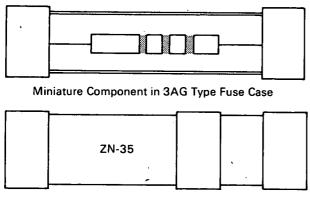
# NASA TECH BRIEF



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### Fuse-Holder Concept Expedites Electronic Component Changes



Three Terminal Device Molded Into Cartridge Fuse Shape

Circuit design and associated bread-boarding often demand rapid changes of circuit components. Mounting such components in fuse holders would facilitate component changing and extend component life. Once an inventory is built up, no component replacement would be necessary except for worn or burned-out items. It is estimated that 50 % of bread-board test time could be saved by adoption of this method.

The proposal is that such components as diodes, resistors, capacitors, thermistors, etc., be mounted in standard fuse holders with the appropriate holding clips mounted on the printed-circuit board or breadboard.

The glass sleeves of the fuse holders facilitate component identification. For heat-generating resistors that require radiation, only the end caps of the fuse holders need be used. A guide to the heat generated by a resistor is its power consumption; if it is operated near rated capacity, it will generate maximum heat.

Three-contact devices such as transistors could be fabricated in the cartridge configuration with a contact band in the center.

### Note:

This development is in the conceptual stage only. No further documentation is available.

### Patent status:

No patent action is contemplated by NASA.

Source: David J. Winslow Marshall Space Flight Center (MFS-20615)

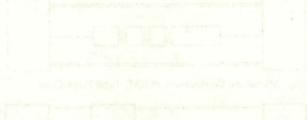
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